

Form PTO-1449		U.S. Department of Commerce Patent and Trademark Office			Atty. Docket No. 51917-CB-PCT-US/ JPW/AJM/AAB		Serial No. 10/692,439	
INFORMATION DISCLOSURE CITATION (Use several sheets if necessary)					Applicants: David J. Pinsky et al.			
					Filing Date October 22, 2003		Group	

U.S. PATENT DOCUMENTS									
Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date if Appropriate		
MS		4 7 1 1 8 4 8	12/8/1987	Insley et al.	435	69.2			
		4 8 8 5 2 7 7	12/5/1989	Nawroth	514	15			
		5 1 6 9 7 8 6	12/8/1992	Carroll et al.	436	69			
		5 3 7 8 4 6 4	1/3/1995	McEver	424	143.1			
		5 4 4 3 9 6 0	8/22/1995	Dahlback	435	13			
		5 4 7 2 8 5 0	12/5/1995	Morrissey	435	13			
		5 4 9 8 6 0 1	03/12/1996	Sato et al.	514	17			
		5 6 0 2 2 3 3	2/11/1995	King	530	381			
		5 6 1 8 7 8 8	4/8/1997	Capon et al.	514	12			
		5 8 0 7 9 8 0	4/8/1997	Lasters et al.					
		5 8 3 9 4 4 3	11/24/1998	Rose et al.	128	898			
		5 9 6 2 2 6 6	10/5/1999	White et al.	435	692			
		6 3 1 5 9 9 5	11/13/2001	Pinsky et al.	424	94.63			
		6 3 1 6 4 0 3	11/13/2001	Pinsky et al.	514	2			
MS		6 3 9 1 3 0 0	5/21/2002	Rose et al.	424	145.1			

FOREIGN PATENT DOCUMENTS									
		Document Number	Date	Country	Class	Subclass	Translation		
							Yes	No	
MS		9 4 0 5 3 1 4A	3/17/1994	WO (Exhibit 1)					
		9 4 2 2 8 8 5	10/13/1994	WO					
		9 5 1 7 4 2 1	6/29/1995	WO					
		9 5 3 4 3 1 9	12/21/1995	WO					
		9 6 0 0 5 7 7	1/11/1996	WO					
		9 7 4 2 9 0 0	11/20/1997	WO					
		9 8 1 3 0 5 8	4/2/1998	WO					
		9 9 4 9 8 0 3	10/7/1999	WO					
		9 9 4 9 8 8 0	10/7/1999	WO					
		7 3 5 2 5 8	11/20/1997	AU					
MS		2 1 4 1 6 4 2	3/8/1995	CA					

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)	
MS	U.S. Serial No. 09/053,872, Rose et al., Method for Inhibiting Thrombosis in a Patient Whose Blood is Subjected to Extracorporeal Circulation, filed April 1, 1998.
MS	U.S. Serial No. 10/679,135, Pinsky et al., Methods for Treating Ischemic Disorders Using Carbon Monoxide, filed October 3, 2003 (Exhibit 2)

EXAMINER /Michael Szperka/	DATE CONSIDERED 07/10/2006
-------------------------------	-------------------------------

*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609: Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Form PTO-1449		U.S. Department of Commerce Patent and Trademark Office		Atty. Docket No. SI917-CB-PCT-US/ JPW/AJM/AAB		Serial No. 10/692,439	
INFORMATION DISCLOSURE CITATION (Use several sheets if necessary)				Applicants: David J. Pinsky et al.			
				Filing Date October 22, 2003		Group	
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)							
MS		International Search Report, August 29, 1997 for PCT/US97/08282.					
		International Preliminary Examination, April 20, 1998 for PCT/US97/08282.					
		Search Report October 27, 2000 from Patent Office regarding European Patent Application No. 97926541.0.					
		International Search Report, June 18, 1999 for PCT/US99/07173.					
		International Preliminary Examination, January 7, 2000 for PCT/US99/07173.					
		Search Report, May 28, 2002 from Patent Office regarding European Patent Application No. 99916264.7.					
		International Search Report, February 5, 1998 for PCT/US97/17229.					
		Written Opinion September 14, 1998 for PCT/US97/17229.					
		International Preliminary Examination, January 8, 1999 for PCT/US97/17229.					
		International Search Report, August 4, 1999 for PCT/US99/07175.					
		Written Opinion February 3, 2000 for PCT/US99/07175.					
		International Preliminary Examination, July 11, 2000 for PCT/US99/07175.					
		Partial European Search Report, March 1, 2004 from European Patent Office on European Patent Application No. EP 97944453.6 (Exhibit 3).					
		Bajaj et al. (1992) Antibody-probed conformational transitions in the protease domain of human factor IX upon calcium binding and zymogen activation: putative high-affinity Ca(2+)-binding site in the protease domain. Proc. Natl. Acad. Sci. USA 89:152-156.					
MS		Bazan, J.F. (1996) Big Rigs in Blood Coagulation. Nature 380:21-23.					
EXAMINER		DATE CONSIDERED					
		07/10/2006					
		/Michael Szperka/					
* EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609: Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.							

Form PTO-1449		U.S. Department of Commerce Patent and Trademark Office		Atty. Docket No. SI917-CB-PCT-US/ JPW/AJM/AAB		Serial No. 10/692,439	
INFORMATION DISCLOSURE CITATION (Use several sheets if necessary)				Applicants: David J. Pinsky et al.			
				Filing Date October 22, 2003		Group	
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)							
MS		Benedict C.R. et al. (1991) Active Site-Blocked Factor IXa Prevents Intravascular Thrombus Formation in the Coronary Vasculature Without Inhibiting Extravascular Coagulation in a Canine Thrombosis Model. J. Clin. Invest. 88:1760-1765.					
		Benedict C.R., et al. (1994) Endothelial-Dependent Procoagulant and Anticoagulant Mechanisms, Recent Advances in Understanding. Texas Heart Institute Journal 21:86-90.					
		Berntorp, E. (1993) Biochemical and In Vivo Properties of High Purity Factor IX Concentrates. Thrombosis and Haemostasis. 70:768-773.					
		Brandstetter et al. (1995) X-ray structure of clotting Factor IXa: active site and module structure related to Xase activity and hemophilia B. Proc. Natl. Acad. Sci. U.S.A. 92:9796-800.					
		Bronner et al. (1995) Primary prevention of stroke. The New England J. Med. 333:1392-1400.					
		Brown and Piantadosi (1992) Recovery of Energy Metabolism in Rat After Carbon Monoxide Hypoxia. J. Clin. Invest. 89:666-672.					
		Carlos and Harlan (1994) Leukocyte-Endothelial Adhesion Molecules. Blood. 24:2068-2102.					
		Connolly et al. (1996) Cerebral Protection in Homozygous Null ICAM-1 Mice After Middle Cerebral Artery Occlusion. J. Clin. Invest. 97:209-216.					
		Connolly et al. (1996) Procedural and Strain-Related Variables Significantly Affect Outcome in a Murine Model of Focal Cerebral Ischemia. Neurosurgery. 38:523-532.					
		Dawson and Synder (1994) Gases as Biological Messengers: Nitric Oxide and Carbon Monoxide in the Brain, J. Neurosci. 14, 5147-5159.					
MS	↓	Dietrich et al. (1995) Influence of High-Dose Aprotinin on Anticoagulation, Heparin Requirement, and Celite-and Kaolin-Activated Clotting Tie in Heparin-pretreated Patients Undergoing Open-Heart Surgery. Anesthesiology, 83(4) 679-689.					
EXAMINER		/Michael Szperka/		DATE CONSIDERED 07/10/2006			
*EXAMINER: Initial if citation considered. whether or not citation is in conformance with MPEP 609: Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.							

Form PTO-1449		U.S. Department of Commerce Patent and Trademark Office		Atty. Docket No. SI917-CB-PCT-US/ JPW/AJM/AAB		Serial No. 10/692,439	
INFORMATION DISCLOSURE CITATION (Use several sheets if necessary)				Applicants: David J. Pinsky et al.			
				Filing Date October 22, 2003		Group	
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)							
MS		Fassbender et al. (1995) Circulating Selectin-and Immunoglobulin-Type Adhesion Molecules in Acute Ischemic Stroke. Stroke. 26:1361-1364.					
		Freedman, S.J. et al., (1995) Structure of the Metal-Free γ -Carboxy-glumatic Acid-Rich Membrane Binding Region of Factor IX Two-dimensional NMR Spectroscopy. J. Biol. Chem. 270:7980-7987.					
		Furie, B.C. and Furie, B. (1995) Biosynthesis of Factor IX: Implications for Gene Therapy. Thrombosis and Haemostasis 74:274-277.					
		Holdright, D., et al. (1994) Comparison of the Effect of Heparin and Aspirin Versus Aspirin Alone on Transient Myocardial Ischemia and In-hospital Prognosis in Patients With Unstable Angina. J. Am. Coll. Cardiol. 24:39-45.					
		Iberti, T.J. et al., (1994) Abnormal Coagulation Profile in Brain Tumor Patients During Surgery. Neurosurgery 34:389-395.					
		Ishimaru et al. (1991) Effects of Successive Carbon Monoxide Exposure on Delayed Neuronal Death in Mice Under the Maintenance of Normal Body Temperature, Biochem. Biophys. Res. Commun. 179, 836-840.					
		Jerome et al. (1994) P-selectin and ICAM-1-Dependent Adherence Reactions: Role in the Genesis of Postischemic No-Reflow. Am. J. Physiol. 226:H1316-H1321.					
		Kim et al. (1995) Adhesive Glycoproteins CD11a and Cd18 are Upregulated in the Leukocytes from Patients with Ischemic Stroke and Transient Ischemic Attacks. J. Neurol. Sci. 128:45-50.					
		Kirchhofer, Daniel et al. (1995) Active Site-Blocked Factors VIIa and IXa Differentially Inhibit Fibrin Formation in a Human Ex Vivo Thrombosis Model. Arterioscler. Thromb. Vasc. Biol. 15:1098-1106.					
MS		Kochanek and Hallenbeck (1992) Polymorphonuclear Leukocytes and Monocytes/Macrophages in the Pathogenesis of Cerebral Ischemia and Stroke. Stroke. 23:1367-1379.					
EXAMINER		/Michael Szperka/		DATE CONSIDERED		07/10/2006	
*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.							

Form PTO-1449		U.S. Department of Commerce Patent and Trademark Office		Atty. Docket No. SI917-CB-PCT-US/ JPW/AJM/AAB	Serial No. 10/692,439
INFORMATION DISCLOSURE CITATION (Use several sheets if necessary)				Applicants: David J. Pinsky et al.	
				Filing Date October 22, 2003	Group
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)					
MS		Kuwabara, K. et al., (1995) Calreticulin, an Antithrombotic Agent which Binds to Vitamin K-Dependent Coagulation Factors, Stimulates Endothelial Nitric Oxide Production, and Limits Thrombosis in Canine Coronary Arteries. J. Biol. Chem. 270:8179-8187.			
		Lenting et al. (1995) Cleavage at Arginine 145 in Human Blood Coagulation Factor IX Converts the Zymogen into a Factor VIII Binding Enzyme. J. Biol. Chem. 270(25):14884-14890.			
		Mayevsky et al. (1995) Multiparametric Monitoring of the Awake Brain Exposed to Carbon Monoxide, J. Appl. Physiol. 78, 1188-1196.			
		Miyata, T. et al., (1994) Factor IX Bm Kiryu: A Val-313-to-Asp Substitution in the Catalytic Domain Results in Loss of Function Due to a Conformational Change of the Surface Loop: Evidence Obtained by Chimeric Modeling. Brit. J. Haematol. 88:156-165.			
		Okada et al. (1994) P-selectin and Intercellular Adhesion Molecule-1 Expression After Focal Brain Ischemia and Reperfusion. Stroke. 25:202-211.			
		Pinsky et al. (1996) Hypoxia-Induced Exocytosis of Endothelial Cell Weibel-Palade Bodies, a Mechanism for Rapid Neutrophil Recruitment After Cardiac Preservation. J. Clin. Invest. 97:493-500.			
		Santagostino, E. et al., (1994) Markers of Hypercoagulability in Patients with Hemophilia B Given Repeated, Large Doses of Factor IX Concentrates During and After Surgery. Thrombosis and Haemostasis 71: 737-740.			
		Schroeter et al. (1994) Local Immune Response in the Rat Cerebral Cortex After Middle Cerebral Artery Occlusion. J. Neuroimmunol. 55:195-203.			
V MS		Seekamp et al. (1994) Role of Selectins in Local and Remote Tissue Injury Following Ischemia and Reperfusion. Am. J. Pathol. 44:592-598.			
EXAMINER		DATE CONSIDERED			
		/Michael Szperka/ 07/10/2006			
*EXAMINER: Initial if citation considered. whether or not citation is in conformance with MPEP 609: Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.					

Form PTO-1449		U.S. Department of Commerce Patent and Trademark Office		Atty. Docket No. 51917-CB-PCT-US/ JPW/AJM/AAB	Serial No. 10/692,439
INFORMATION DISCLOSURE CITATION (Use several sheets if necessary)				Applicants: David J. Pinsky et al.	
				Filing Date October 22, 2003	Group
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)					
MS		Spanier et al., (1997) Active-Site Blocked Factor IXa is a Selective Alternative Anticoagulant to Heparin in Cardiopulmonary Bypass. Circulation. 96:1672.			
		Spanier et al., (1997) Active Site-Blocked Factor IXa (IXai): A Novel Selective Anticoagulant for Use in Cardiopulmonary Bypass. Surgical Forum. 48:259-261.			
		Spanier et al., (1997) Selective Anticoagulation with Active Site Blocked Factor IXa in Synthetic Patch Vascular Repair Results in Decreased Blood Loss and Operative Time. ASAIO J. 43:M526-M530.			
		Spanier et al., (1998) A Novel Anticoagulant Strategy in Peripheral Vascular Surgery that Decreases Operative Blood Loss. Surgical Forum. 49:333-335.			
		Spanier et al., (1998) Heparinless Cardiopulmonary Bypass with Active-Site Blocked Factor IXa: A Preliminary Study on the Dog. J. Thorac. Cardiovasc. Surg. 115(5):1179-1188.			
		Spanier et al., (1998) Selective Anticoagulation with Active Site-Blocked Factor IXa Suggests Separate Roles for Intrinsic and Extrinsic Coagulation Pathways in Cardiopulmonary Bypass. J. Thorac. Cardiovasc. Surg. 116(5):860-890.			
		Tijburg et al., (1991) Activation of the coagulation mechanism on tumor necrosis factor-stimulated cultured endothelial cells and their extracellular matrix. The role of flow and Factor IX/IXa. J. Biol. Chem. 266:12067-12074.			
		Verma et al. (1993) Carbon Monoxide: a Putative Neural Messenger, Science 259, 381-384.			
	↓	Wacey, A.I. et al., (1994) Determinants of the Factor IX Mutational Spectrum in Hemophilia B: An Analysis of Missense Using A Multi-Domain Molecular Model of the Activated Protein. Hum. Genet. 94:594-608.			
MS		Warrier, I. et al., (1995) Safety of High Doses of Monoclonal Antibody Purified Factor IX Concentrate. Am. J. of Hematol. 49:92-94.			
EXAMINER		/Michael Szperka/		DATE CONSIDERED 07/10/2006	
*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.					

Form PTO-1449		U.S. Department of Commerce Patent and Trademark Office		Atty. Docket No. SI917-CB-PCT-US/ JPW/AJM/AAB		Serial No. 10/692,439	
INFORMATION DISCLOSURE CITATION (Use several sheets if necessary)				Applicants: David J. Pinsky et al.			
				Filing Date October 22, 2003		Group	
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)							
MS		Weyrich et al. (1993) In Vivo Neutralization of P-selectin Protects Feline Heart Endothelium in Myocardial Ischemia and Reperfusion Injury. J. Clin. Invest. 91:2620-2629.					
MS		Wong, A.G. et al., (1995) Relative Efficacy of Active Site-Blocked Factors IXa in a Model of Venous Thrombosis. Circulation. 92:I-686(Abstract # 3293).					
MS		Wyngaarden et al. Cecil Textbook of Medicine, 19th Edition, Phil.: W.B. Saunders Company, Vol. 2:2376.					
EXAMINER		/Michael Szperka/		DATE CONSIDERED		07/10/2006	
*EXAMINER: Initial if citation considered. whether or not citation is in conformance with MPEP 609: Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.							

[illegible][illegible]

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)	
MS.	Benedict, C. R. et al. (1991) Active Site-blocked Factor IXa Prevents Intravascular Thrombus Formation in the Coronary Vasculature without Inhibiting Extravascular Coagulation in a Canine Thrombosis Model. J. Clin. Invest 88-1760-1765 (Exhibit 5).
MS	Benedict, C. R. et al. (1994) Endothelial-Dependant Procoagulant and Anticoagulant Mechanisms. Molecular and Cellular Cardiology 21:1 (Exhibit 6).
MS	Choudhri, T. F. et al. (1999) Targeted Inhibition of Intrinsic Coagulation Limits Cerebral Injury in Stroke without Increasing Intracerebral Hemorrhage. J. Exp. Med 190:1:91-99 (Exhibit 7).
MS	Partial European Search Report, June 16, 2004 from European Patent Office on European Patent Application No. EP 97944453.6 (Exhibit 8).

EXAMINER	/Michael Szperka/	07/10/2008
<p>*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609: Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.</p>		

[illegible]